

**IN THE**  
**UNITED STATES PATENT AND TRADEMARK OFFICE**

**Inventor(s):** Stanley T. Jefferson

**Serial No.:**

**Examiner:**

**Filing Date:**

### Group Art Unit:

**Title:** SYSTEM AND METHOD FOR PARALLEL IMAGE RECONSTRUCTION OF MULTIPLE DEPTH LAYERS OF AN OBJECT UNDER INSPECTION FROM RADIOPHOTOGRAPHIC IMAGES

**COMMISSIONER FOR PATENTS  
PO Box 1450  
Alexandria, VA 22313-1450**

## INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

(x) under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)

( ) under 37 CFR 1.97(c) together with either a:  
( ) Statement under 37 CFR 1.97(e), or  
( ) a \$180.00 Processing fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

( ) under 37 CFR 1.97 (d) together with a:  
( ) Statement under 37 CFR 1.97(e), and  
( ) a \$180.00 processing fee under 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account 50-1078 the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 50-1078 pursuant to 37 CFR 1.25.

( ) Applicant(s) submit herewith Form PTO 1449. References identified with an asterisk (\*) were disclosed in Patent Application No. \_\_\_\_\_ filed \_\_\_\_\_, now U. S. Patent No. \_\_\_\_\_, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

"Express Mail" label no. **EV 256029031US**

Date of Deposit August 19, 2003

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450.

By J. C. Voss

Rev 05/03 (IDSXMI)

Respectfully submitted,

## Stanley T. Jefferson

Bv

Jody C. Bishop

Attorney/Agent for Applicant(s)  
Req. No. 44-034

Date: **August 19, 2003**

Telephone No.: (214) 855-8007

## PATENT APPLICATION

Sheet 1 of 3

FORM PTO-1449  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	10020619-1	
	APPLICANT	Stanley T. Jefferson
	FILING DATE	GROUP

**REFERENCE DESIGNATION**      **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME
		4,809,308	02/28/1989	Adams et al.
		5,012,502	04/30/1991	Battin et al.
		5,108,024	04/28/1992	Kazem-Goudarzi et al.
		5,118,192	06/02/1992	Chen et al.
		5,208,528	05/04/1993	Quintard
		5,245,421	09/14/1993	Robertson et al.
		5,247,344	09/21/1993	Doan
		5,592,562	01/07/1997	Rooks
		5,621,811	04/15/1997	Roder et al.
		5,719,952	02/17/1998	Rooks

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

	CENSOR, Yair, "Finite Series-Expansion Reconstruction Methods", IEEE, Vol. 71, No. 3, March 1983, pages 409 - 419
	LEWITT, Robert M., "Reconstruction Algorithms: Transform Methods", IEEE, Vol. 71, No. 3, March 1983, pages 390 - 408
	LOUIS, Alfred K. et al., "Mathematical Problems of Computerized Tomography", IEEE, Vol. 71, No. 3, March 1983, pages 379 - 389
EXAMINER	DATE CONSIDERED

\* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

FORM PTO-1449		ATTY. DOCKET NO. <b>10020619-1</b>	SERIAL NO.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT <b>Stanley T. Jefferson</b>	
(Use several sheets if necessary)		FILING DATE	GROUP

**REFERENCE DESIGNATION**      **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME
		5,862,973	01/26/1999	Wasserman
		5,926,557	07/20/1999	King et al.
		6,002,739	12/14/1999	Heumann
		6,023,663	02/08/2000	Kim
		6,028,673	02/22/2000	Nagasaki et al.
		6,144,453	11/07/2000	Hallerman et al.
		6,178,223	01/23/2001	Solomon et al.
		6,201,850	03/13/2001	Heumann
		6,236,747	05/22/2001	King et al.
		6,262,803	07/17/2001	Hallerman et al.

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

		SMITH, Bruce D., "Cone-beam tomography: recent advances and a tutorial review", Optical Engineering, Vol. 29, No. 5, May 1990, pages 524 - 534
		JACOBSON, Caroline, "Fourier Methods in 3D-Reconstruction from Cone-Beam Data", Abstract only of Dissertation No. 427, Linkoping University (Sweden), [online] [Retrieved on 8/13/2003], 2 pages

EXAMINER	DATE CONSIDERED

\* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

## PATENT APPLICATION

Sheet 3 of 3

FORM PTO-1449	ATTY. DOCKET NO. <b>10020619-1</b>	SERIAL NO.
<b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>	APPLICANT <b>Stanley T. Jefferson</b>	
(Use several sheets if necessary)	FILING DATE	GROUP

**REFERENCE DESIGNATION**      **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
				YES	NO

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

EXAMINER	DATE CONSIDERED

\* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IPS)